PRODUCT INFORMATION PACKET

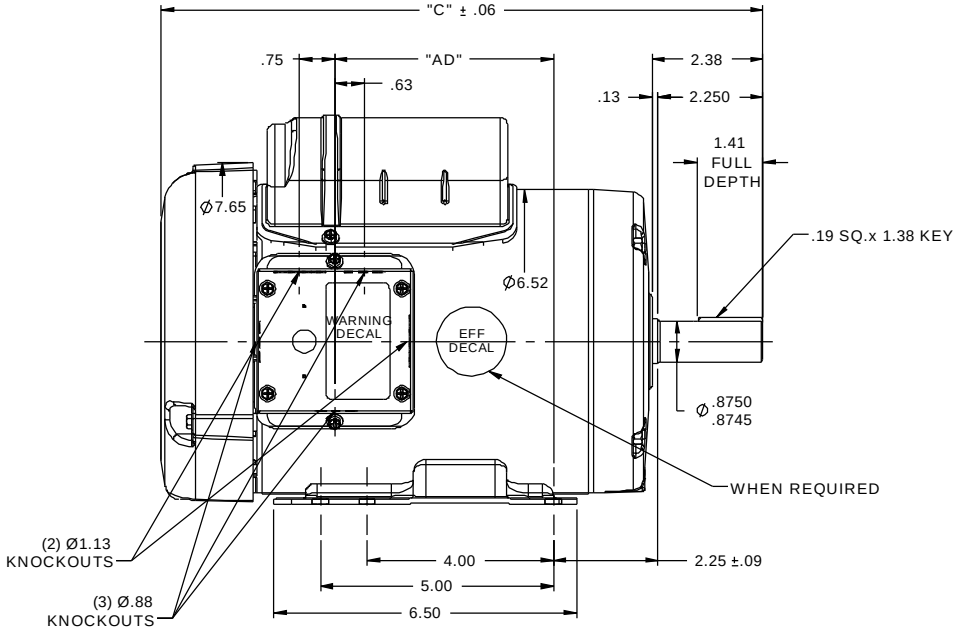
Model No: 121070.00
Catalog No: 121070.00
Special Voltage Motor, 3 HP, 1 Ph, 50 Hz, 220 V, 3000 RPM, 145T Frame, TEFC

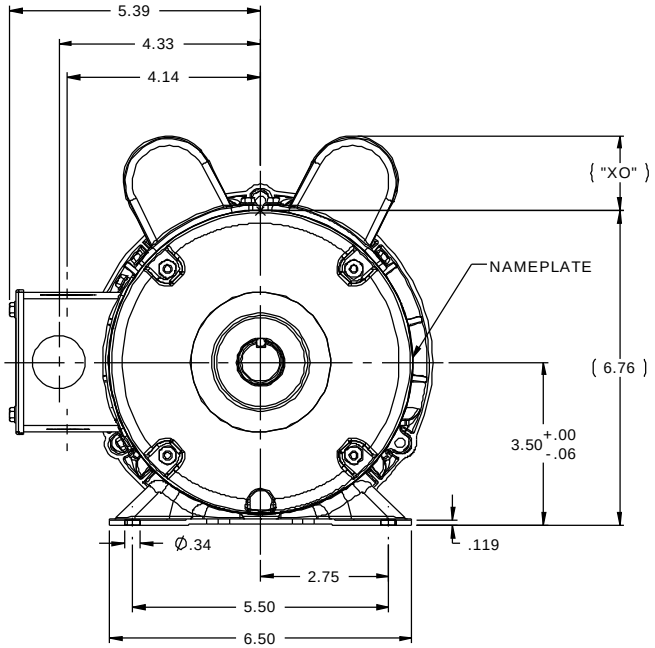
Nameplate Specifications

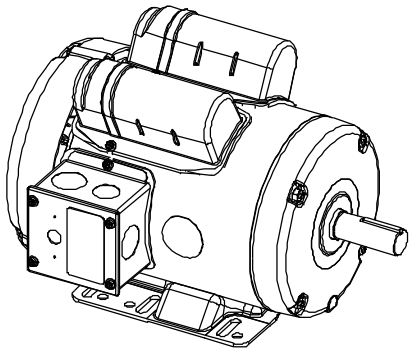
Phase	1	Output HP	3 Hp
Output KW	2.2 kW	Voltage	220 V
Speed	2850 rpm	Service Factor	1
Frame	145T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	84 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	12.4 A	Power Factor	97
Duty	Continuous	Insulation Class	F
Design Code	L	KVA Code	L
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	54
Number of Speeds	1		

Technical Specifications

Electrical Type	Capacitor Start Capacitor Run	Starting Method	Across The Line
Poles	2	Rotation	Selective Counterclockwise
Resistance Main	.72 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	14.43 in
Frame Length	8.50 in	Shaft Diameter	0.875 in
Shaft Extension	2.25 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005413.01	Outline Drawing	028803-850C







DASH NO.	"C"	"AD"	CAP DASH	"XO"
700	12.93	4.69		
750	13.43	5.19	A	1.15
800	13.93	5.69	B	1.60
850	14.43	6.19	C	1.82

NOTE:
1) GASKETS THROUGHOUT

NO	REVISION	BY & DATE	CHK
01	CORRECTED BASE LOCATION ECR 0035519	GS 3/5/13	

TOLERANCES UNLESS SPECIFIED
DEC INCHES
.X ±.1
.XX ±.03
.XXX ±.005
.XXXX ±.0005
ANG ±1/2°

THIRD ANGLE PROJECTION

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE OUTLINE - 140T FRAME
TEFC - RIGID
MAT'L
FINISH GENERAL PURPOSE

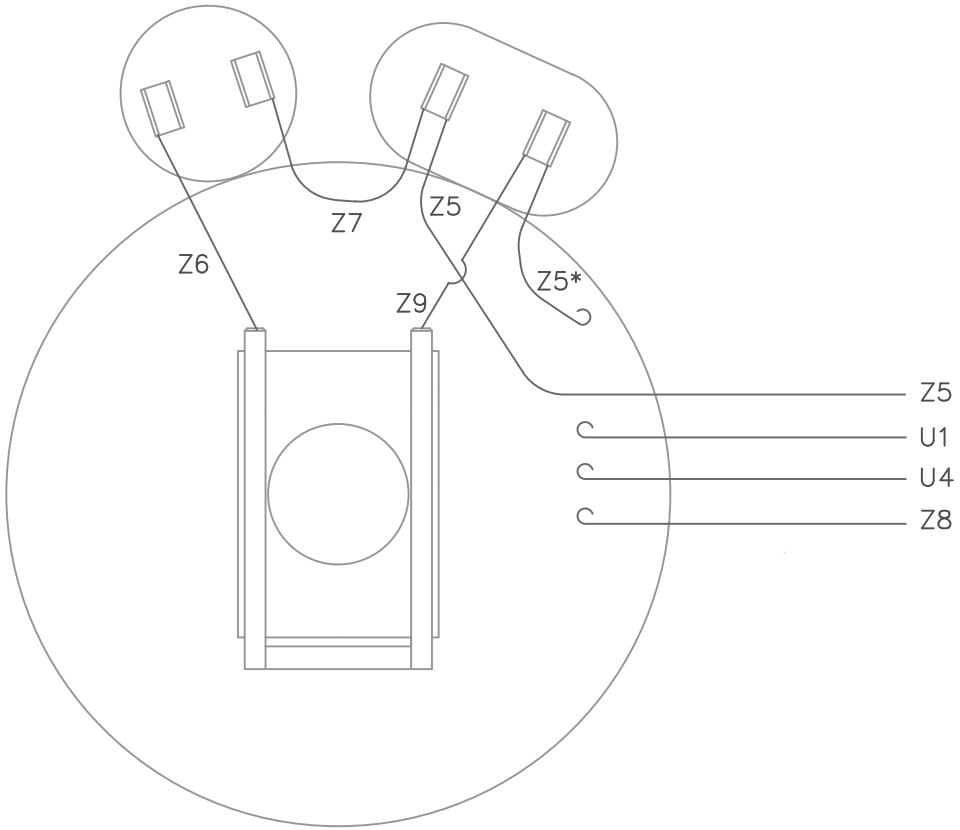
DRAWN KMM 10/04/07
CHK
APPR
SCALE 3:8
REF 028589
FMF
PAGE OF

RFP
PREV
NETWORK FILE NAME 028803

SIZE B
DRAWING NO 028803
REV 01

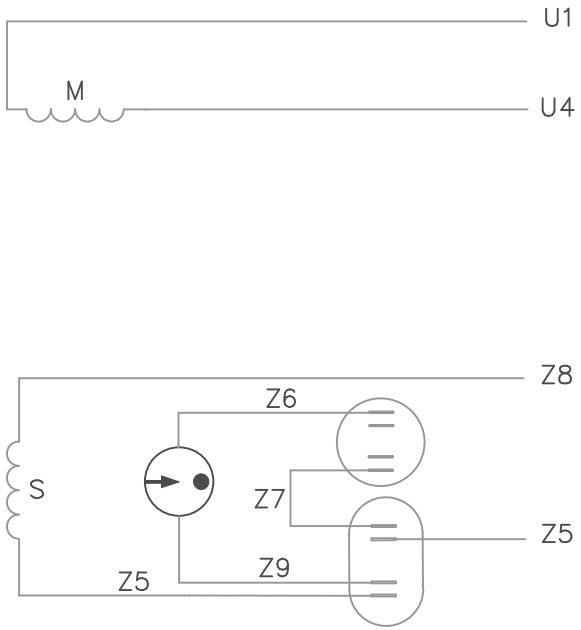
005413-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



* THIS LEAD MAY BE WHITE

LINE LEADS



ROTATION FACING LEAD END	L1	L2
C.C.W.	U1,Z8	U4,Z5
C.W.	U1,Z5	U4,Z8

NO.	REVISION	BY	DATE
01	ADDED NOTE *	KA	03/24/2008

TOLERANCES UNLESS OTHERWISE SPECIFIED

DECIMALS

.00	± .01
.000	± .005
.0000	± .0005
FRACTIONS	± 1/64
ANGLES	± 1/2°
INCH/MM	

LEESON ELECTRIC CORPORATION

DRAWN DBT 07/21/97
CH'K'D.
APPR.
SCALE 1=1
REF. 005018-01
FMF

TITLE: EXTERNAL WIRING DIAGRAM TYPE "K" W/O PROTECTOR

MAT'L.: DECAL – 80670

FINISH: I.E.C. MARKINGS

SIZE: A

DRAWING NO.: 005413-01

9/25/2008 6:11:46 PM

LEESON

CERTIFICATION DATA SHEET

1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810

CATALOG #: 121070.00

CONN. DIAGRAM: 005413.01

OUTLINE: 028803-850C

MOUNTING: F1 ONLY

WINDING #: K632137 FR 4 C

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3	2.24	3000	2850	145T	TEFC	L	L

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	50	220	12.4	ACROSS THE LINE	CONTINUOUS	F4	1.0	40

FULL LOAD EFF:	84	3/4 LOAD EFF:	87.7	1/2 LOAD EFF:	85.9	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	97	3/4 LOAD PF:	96.5	1/2 LOAD PF:	94.9	81.5	CAP START CAP RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
5.4 LB-FT	78	13.8 LB-FT 256 %	12.1 LB-FT 224 %	95

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.095 LB-FT^2	0 LB-FT^2	10 SEC.	0	53 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE - LEESON (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6205	6203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

*****

N

O

T

E

S

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

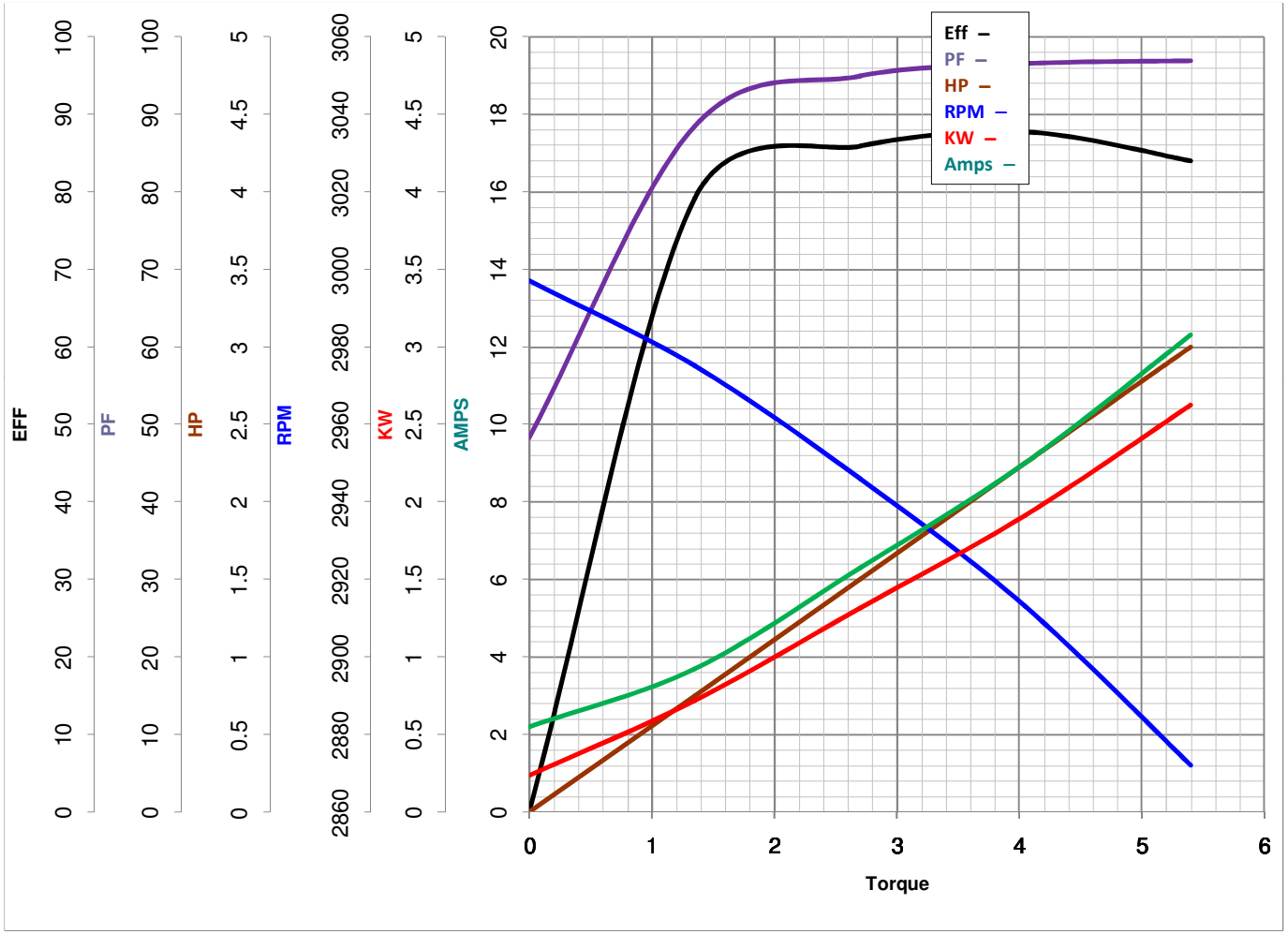
LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Curve at 220 **Volts** **HP** 3.00 **PHASE** 1
50 **HZ**
3 **HP** **VOLTS** 220

Model No 121070.00

Catalog No 121070.00 **HZ** 50 **RPM** 2850



Torque in lb-Ft

FL TORQUE	5.4	lb-Ft	**FL AMPS**	12.4	
BD TORQUE	12.1	lb-Ft	**PU TORQUE**	11.1	lb-Ft
LR TORQUE	13.8	lb-Ft	**LR AMPS**	78	
WINDING	K632137-4			**Date**	4/9/2018

EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
1946 West Cook Road
Fort Wayne, IN 46818

and the authorized representative
established within the Community:

Regal Beloit Italy
Via Modena, 18
24040 Ciserano(BG) - Italy

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 121070.00

(Model No. may contain prefix and/or suffix characters)

Catalog No : 121070.00

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)
EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Zach Stauffer
Vice President, Engineering

Authorized Representative in the Community:

Stefano Casiraghi
Technology Director, Engineering

Created on 07/08/2025

CE 25